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IBM CORP 18.05.81-US-264760 (01.12. Prepn. of water-based inks for ink concentrates, filtration, a formation D/S: E(DE FR GB IT) H ₂ O-based ink (I) for ink jet	82) C09d-11/02 ink jet devices - by thermal stress o nd addn. of inhibitors of particle	of solubilization of impuritie	oas prities (with HCl). Heating is pref. , and the final formulation is pref. 'Celite' (RTM)) to remove any insol.	
is free of agents (II) known to and/or growth; (b) the concol to produce particle formatio ink is filtered; and (d) an aquation and the method affords a non (partic. for use in continuous high tolerance to evapn., and in addn., the ink shows exception, resists particle growth, stresses such as heat, cold, DETAILS	tentrate of (I) is formed which to inhibit particle formation I. ink is heated for long enough on and/or growth; (c) the concd. wehicle and (II) are added. -toxic, H ₂ O-based ink-jet ink stream devices) which has I good light and H ₂ O-fastness. Ptionally rapid paper penetrational remains stable under and evapn.	Nigrosine dye Carbowax 200 (RTM) Diethylene glycol N-methyl-2-pyrrolidone Butyl carbitol Versenol 120 (RTM) Triton QS-44 (RTM) Na Omadine NH ₄ OH Water Surfynol 104 (16pp478). (E) ISR:- GB2031002	A (wt.%) 14.0 20.0 20.0 8.0 8.0 0.5 0.4 0.2 2.0 27.4	B(wt.%) 7.0 10.0 10.0 4.0 4.0 0.5 0.2 0.1 1.0 62.95 0.25

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> JA 0187289 NOV 1982

10392 K/05 HONP 12.05.81 A(4-C4, 4-F1, 5-B3, 12-B3, 12-W7F) F(5-A6B) G(2-A5C, 5-F) A82 F09 G02 P75 (A13) HONSHU PAPER MFG KK *J5 7187-289

12.05.81-JP-070233 (17.11.82) B41m-05 D21h-01/28 Ink-jet recording sheet for use with water-based inks - has coating maleate/acrylate terpolymer ammonium salt, 120 g of confg. pigment and binder including styrene-alkyl maleate-acrylic calcined kaolin, og of powdery urea/formaldehyde resin, terpolymer or terpolymer-cationic organic cpd. prod.

C83-010173 An ink-jet recording sheet having a coating layer composed mainly of a binder and a pigment is characterised in that 50 wt.% or more of the binder is (i) a terpolymer prepared by copolymsn. of styrene, a monoalkylmaleate and an acrylic comonomer, or (ii) a reaction product prepared from the terpolymer and a cationic organic cpd.

The use is claimed of calcined kaolin (or its mixture with powdery ureaformaldehyde resin) as the pigment.

USE/ADVANTAGE

The sheet is used for recording with water-based inks. Ink-set time is short, and reduced spreading of the ink combined with improved lightfastness of the records is obtained.

EXAMPLE

600 g of 15 wt.% an aqs. soln. of styrene/monoalkyl

0.1 g of antifoaming agent and 0.1 g of sodium pyrophosphate were homogenised for about 1 hr. A 52 g/m² wood-free paper sheet was coated with the compsn. to form a 4 g/m² coating layer, which was then calendered with a linear pressure of 5 kg/cm, to obtain the ink-jet recording sheet. (9ppW173).

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